

Attorney Docket No.: C1104-7079.20

MINAME UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Kevin J. Dowling, et al.

Serial No:

10/664,415

Confirmation. No.:

3198

Filed:

September 17, 2003

For:

SYSTEMS AND METHODS FOR PROVIDING

ILLUMINATION IN MACHINE VISION SYSTEMS

Examiner:

Not yet assigned

Art Unit:

2821

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 20 day of January, 2004.

Jeanne W. Chub

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

- 1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
- 2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
- 3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted, Kevin J. Dowling, et al, Applicants

Bv

Joseph Teja, Jr., Reg. No. 45,157

LOWRIE, LANDO & ANASTASI, LLP

Riverfront Office Park

One Main Street

Cambridge, Massachusetts 02142

Tel. (617) 395-7000

January <u>20</u>, 2004

JAN 2 3 2004

FORM PTO-1449/A and B (Modified INFORMATION DISCLOSCREMAN

of

7

Sheet

1

APPLICATION NO.: 10/664,415

ATTY. DOCKET NO.: C1104-7079.20

STATEMENT BY APPLICANT

FILING DATE: September 17, 2003

CONFIRMATION NO.: 3198

APPLICANT: Kevin J. Dowling, et al.

GROUP ART UNIT: 2821

EXAMINER:

Not yet assigned

HS DATENT DOCUMENTS

Examiner's	Cite	U.S. Patent Document Number Kind Code		Name of Patentee or Applicant of Cited	Date of Publication or of issue
Initials#	No.			Document	of Cited Document MM-DD-YYYY
		* US 2001/0033488	A1	Chliwnyj, et al.	10/25/2001
		* Re. 36,030		Nadeau	01/05/1999
		* 2,909,097		A.E. Alden, et al.	10/20/1959
		* 3,318,185		Kott	05/09/1967
		* 3,561,719		Grindle	02/1971
•		* 3,586,936		McLeroy	06/22/1971
		* 3,601,621		Ritchie	08/24/1971
		* 3,643,088		Osteen, et al.	02/1972
		* 3,746,918		Drucker, et al.	07/17/1973
		* 3,818,216		Larraburu	06/18/1974
		* 3,832,503		Crane	08/27/1974
•		* 3,858,086		Anderson, et al.	12/31/1974
		* 3,909,670		Wakamatsu, et al.	09/30/1975
•		* 3,924,120		Cox, III	12/02/1975
		* 3,958,885		Stockinger, et al.	05/25/1976
		* 3,974,637		Bergey, et al.	08/17/1976
		* 4,001,571		Martin	01/04/1977
		* 4,054,814		Fegley, et al.	10/18/1977
		* 4,082,395		Donato, et al.	04/04/1978
		* 4,096,349		Donato	06/20/1978
		* 4,241,295		Williams, Jr.	12/23/1980
		* 4,272,689		Crosby, et al.	06/09/1981
		* 4,273,999	1	Pierpoint	06/16/1981
		* 4,298,869		Okuno	11/03/1981
		* 4,329,625		Nishizawa, et al.	05/11/1982
		* 4,367,464		Kurahashi, et al.	12/04/1983
		* 4,388,567		Yamazaki, et al.	06/14/1983
		* 4,388,589		Molldrem, Jr.	06/14/1983
		* 4,392,187		Bornhorst	07/05/1983
		* 4,420,711		Takahashi, et al.	12/13/1983
		* 4,500,796		Quin	02/19/1985
		* 4,622,881		Rand	11/18/1986
		* 4,625,152		Nakai	11/25/1986
		* 4,635,052		Aoike, et al.	01/06/1987
		* 4,647,217		Havel	03/03/1987

FORM PTO-1449/A and B (Modified)

2

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

7

of

APPLICATION NO.: 10/664,415

ATTY. DOCKET NO.: C1104-7079.20

FILING DATE: September 17, 2003

CONFIRMATION NO.: 3198

APPLICANT: Kevin J. Dowling, et al.

GROUP ART UNIT: 2821

EXAMINER:

Not yet assigned

	* 4,656,398	Michael, et al.	04/07/1987
	* 4,668,895	Schneiter	05/26/1987
	* 4,682,079	Sanders, et al.	07/21/1987
	* 4,686,425	Havel	08/11/1987
	* 4,687,340	Havel	08/18/1987
	* 4,688,154	Nilssen	08/18/1987
	* 4,688,869	Kelly	08/25/1987
	* 4,695,769	Schweickardt	09/22/1987
	* 4,701,669	Head, et al.	10/20/1987
	* 4,705,406	Havel	11/10/1987
_	* 4,707,141	Havel	11/17/1987
_	* 4,727,289	Uchida	02/23/1988
	* 4,740,882	Miller	04/26/1988
	* 4,753,148	Johnson	06/28/1988
	* 4,771,274	Havel	09/13/1988
•	* 4,780,621	Bartleucci, et al.	10/25/1988
	* 4,818,072	Mohebban	04/04/1989
	* 4,837,565	White	06/06/1989
,	* 4,843,627	Stebbins	06/27/1989
	* 4,845,481	Havel	07/04/1989
	* 4,845,745	Havel	07/04/1989
	* 4,863,223	Weissenbach, et al.	09/05/1989
	* 4,874,320	Freed, et al.	10/17/1989
	* 4,887,074	Simon, et al.	12/12/1989
	* 4,922,154	Cacoub	05/01/1990
	* 4,934,852	Havel	06/19/1990
	* 4,962,687	Belliveau, et al.	10/16/1990
	* 4,965,561	Havel	10/23/1990
	* 4,973,835	Kurosu, et al.	11/27/1990
	* 4,979,081	Leach, et al.	12/18/1990
	* 4,980,806	Taylor, et al.	12/25/1990
	* 4,992,704	Stinson	02/12/1991
	* 5,003,227	Nilssen	03/26/1991
	* 5,008,595	Kazar	04/16/1991
	* 5,010,459	Taylor, et al.	04/23/1991
	* 5,027,262	Freed	06/25/1991
	* 5,034,807	Von Kohorn	07/23/1991
	* 5,060,065	Wasserman	10/22/1991
	* 5,072,216	Grange	12/10/1991

FORM PTO-1449/A and B (Modified)

INFORMATION DISCLESURE OF FILING DATE: September 17, 2003

STATEMENT BY APPLICANT

Sheet 3 of 7

APPLICATION NO.: 10/664,415

ATTY. DOCKET NO.: C1104-7079.20

CONFIRMATION NO.: 3198

APPLICANT: Kevin J. Dowling, et al.

GROUP ART UNIT: 2821

EXAMINER: Not yet assigned

	* 5,078,039	Tulk, et al.	01/07/1992
	* 5,083,063	Brooks	01/21/1992
	* 5,126,634	Johnson	06/30/1992
	* 5,128,595	Hara	07/07/1992
<u> </u>	* 5,134,387	Smith, et al.	07/28/1992
	* 5,142,199	Elwell	08/25/1992
 :	* 5,154,641	McLaughlin	10/13/1992
	* 5,164,715	Kashiwabara, et al.	11/17/1992
	* 5,166,985	Takagi et al.	11/24/1992
	* 5,184,114	Brown	02/02/1993
	* 5,194,854	Havel	03/16/1993
	* 5,209,560	Taylor, et al.	05/11/1993
	* 5,225,765	Callahan, et al.	07/06/1993
	* 5,226,723	Chen	07/13/1993
· · · · · · · · · · · · · · · · · · ·	* 5,254,910	Yang	10/19/1993
,	* 5,256,948	Boldin, et al.	10/26/1993
	* 5,282,121	Bornhorst, et al.	01/25/1994
	* 5,294,865	Haraden	03/15/1994
· · · · · · · · · · · · · · · · · · ·	* 5,307,295	Taylor, et al.	04/26/1994
	* 5,329,431	Taylor, et al.	07/12/1994
···	* 5,350,977	Hamamoto, et al.	09/27/1994
	* 5,357,170	Luchaco, et al.	10/18/1994
	* 5,369,492	Sugawara	11/29/1994
	* 5,371,618	Tai, et al.	12/06/1994
	* 5,374,876	Horibata, et al.	12/20/1994
	* 5,388,357	Malita	02/14/1995
	* 5,402,702	Hata	04/04/1995
	* 5,404,282	Klinke, et al.	04/04/1995
	* 5,406,176	Sugden	04/11/1995
	* 5,410,328	Yoksza, et al.	04/25/1995
	* 5,412,284	Moore, et al.	05/02/1995
	* 5,412,552	Fernandes	05/02/1995
	* 5,420,482	Phares	05/30/1995
	* 5,421,059	Leffers, Jr.	06/06/1995
	* 5,432,408	Matsuda, et al.	07/11/1995
	* 5,436,535	Yang	07/25/1995
	* 5,461,188	Drago, et al.	10/24/1995
	* 5,463,280	Johnson	10/31/1995
	* 5,465,144	Parker, et al.	11/07/1995

FORM PTO-1449/A and B (Modified)

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Sheet 4 of 7

FILING DATE: September 17, 2003 CONFIRMATION NO.: 3198

APPLICANT: Kevin J. Dowling, et al.

EXAMINER: Not yet assigned

 	* 5,489,827	Xia	02/06/1996
	* 5,491,402	Small	02/13/1996
	* 5,504,395	Johnson, et al.	04/02/1996
	* 5,545,950	Cho	08/13/1996
	* 5,561,346	Byrne	10/01/1996
	* 5,575,459	Anderson	11/19/1996
	* 5,575,554	Guritz	11/19/1996
	* 5,592,051	Korkala	01/07/1997
	* 5,640,061	Bornhorst, et al.	06/17/1997
	* 5,642,129	Zavracky, et al.	06/24/1997
	* 5,673,059	Zavracky, et al.	09/30/1997
	* 5,701,058	Roth	12/23/1997
	* 5,721,471	Begemann, et al.	02/24/1998
	* 5,734,590	Tebbe	03/31/1998
	* 5,751,118	Mortimer	05/12/1998
•	* 5,752,766	Bailey, et al.	05/19/1998
	* 5,769,527	Taylor, et al.	06/23/1998
•	* 5,803,579	Turnbull, et al.	09/08/1998
	* 5,808,689	Small	09/15/1998
	* 5,821,695	Vilanilam, et al.	10/13/1998
	* 5,848,837	Gustafson	12/15/1998
	*5,850,126	Kanbar	12/15/1998
	* 5,851,063	Doughty, et al.	12/22/1998
	* 5,852,658	Knight, et al.	12/22/1998
	* 5,859,508	Ge, et al.	01/12/1999
	* 5,896,010	Mikolajczak, et al.	04/20/1999
	* 5,912,653	Fitch	06/15/1999
	* 5,924,784	Chliwnyj, et al.	07/20/1999
	* 5,946,209	Eckel, et al.	08/31/1999
	* 5,952,680	Strite	09/14/1999
	* 5,959,547	Tubel, et al.	09/28/1999
	* 5,963,185	Havel	10/05/1999
	* 5,974,553	Gandar	10/26/1999
	* 6,008,783	Kitagawa, et al.	12/28/1999
	* 6,016,038	Mueller, et al.	01/18/2000
	* 6,018,237	Havel	01/25/2000
	* 6,025,550	Kato	02/15/2000
	* 6,031,343	Recknagel, et al.	02/29/2000
	* 6,068,383	Robertson, et al.	05/30/2000

FORM PTO-1449/A and B (Modified)

APPLICATION NO.: 10/664,415

ATTY. DOCKET NO.: C1104-7079.20

FILING DATE: September 17, 2003

CONFIRMATION NO.: 3198

APPLICANT: Kevin J. Dowling, et al.

Sheet 5 of 7

GROUP ART UNIT: 2821

EXAMINER: Not yet assigned

6,095,661 6,097,352 6,132,072 6,135,604 6,150,774 6,166,496 6,183,086 6,184,628		Lebens, et al. Zavracky, et al. Turnbull, et al. Lin Mueller, et al. Lys, et al.	08/01/2000 08/01/2000 10/17/2000 10/24/2000 11/21/2000 12/26/2000
6,132,072 6,135,604 6,150,774 6,166,496 6,183,086 6,184,628		Turnbull, et al. Lin Mueller, et al. Lys, et al.	10/17/2000 10/24/2000 11/21/2000
6,135,604 6,150,774 6,166,496 6,183,086 6,184,628		Lin Mueller, et al. Lys, et al.	10/24/2000 11/21/2000
6,150,774 6,166,496 6,183,086 6,184,628		Mueller, et al. Lys, et al.	11/21/2000
6,166,496 6,183,086 6,184,628		Lys, et al.	`
6,183,086 6,184,628			12/26/2000
6,184,628			1
		Neubert	02/06/2001
C 106 471	B1	Ruthenberg	02/06/2001
6,196,471		Ruthenberg	03/06/2001
6,211,626	B1	Lys, et al.	04/03/2001
6,215,409	B1	Blach	04/10/2001
6,250,774	B1	Begemann, et al.	06/26/2001
6,273,338	B1	White	08/14/2001
6,292,901	B1	Lys, et al.	09/18/2001
6,340,868	B1	Lys, et al.	01/22/2002
6,459,919	B1	Lys, et al.	10/01/2002
			
:	6,340,868	6,340,868 B1	6,340,868 B1 Lys, et al.

ECDEIGN DATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document		nent	Name of Patentee or Applicant of Cited	Date of Publication of	Translation
		Office/ Country	Number	Kind Code	Document (not necessary)	Cited Document MM-DD-YYYY	(Y/N)
			* AU 6 267 9			12/30/1996	
			* CA 2 178 432			12/08/1996	
			* EP 0443289			08/28/1991	
			* EP 0452905	A1		10/23/1991	
			* EP 0495305	A2		07/22/1992	
			* EP 0534710	B1		01/17/1996	
			* EP 0752632	A2		01/08/1997	
			* EP 0752632	A3		08/20/1997	
			* EP 0823812	A2		02/11/1998	
			* EP 0935234	A1		08/11/1999	

FORM PTO-1449/A and B (Modified)	APPLICATION NO.: 10/664,415	ATTY. DOCKET NO.: C1104-7079.20	
· INFORMATION DISCLOSURE	FILING DATE: September 17, 2003	CONFIRMATION NO.: 3198	
STATEMENT BY APPLICANT	APPLICANT: Kevin J. Dowling, et al.		
Sheet 6 of 7	GROUP ART UNIT: 2821	EXAMINER: Not yet assigned	

	* EP 0942631	A2	09/15/1999
	* EP 1020352	A2	07/19/2000
	* EP 1113215	A2	07/04/2001
	* FR 88 17359		12/21/1998
	* GB 2045098	A	10/29/1980
	* GB 2135536	A	08/30/1984
	* GB 2176042	A	12/10/1986
	* JP 06043830		02/18/1994
	* JP 9 320766		12/12/1997
	* JP 7-39120		07/14/1995
	* JP 8-106264		04/23/1996
	* WO 89/05086		06/01/1989
	* WO 94/18809		08/18/1994
	* WO 95/13498		05/18/1995
	* WO 96/41098		12/19/1996
,			

OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials#	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		* "LM117/LM317A/LM317 3-Terminal Adjustable Regulator", National Semiconductor Corporation, May 1997, pp. 1-20	
		* "DS96177 RS-485 / RS-422 Differential Bus Repeater", National Semiconductor Corporation, February 1996, pp. 1-8	
		* "DS2003 / DA9667 / DS2004 High Current / Voltage Darlington Drivers", National Semiconductor Corporation, December 1995, pp. 1-8	
		* "LM140A / LM140 / LM340A / LM7800C Series 3 – Terminal Positive Regulators", National Semiconductor Corporation, January 1995, pp. 1-14	
		* High End Systems, Inc., Trackspot User Manual, August 1997, Excerpts (Cover, Title page, pp. ii through iii and 2-13 through 2-14)	
		* Artistic License, AL4000 DMX512 Processors, Revision 3.4, June 2000, Excerpts (Cover, pp. 7,92 through 102)	

FORM'PTO-1449/A and B (Modified) INFORMATION DISCLOSURE		APPLICATION NO.: 10/664,415	ATTY. DOCKET NO.: C1104-7079.20	
		FILING DATE: September 17, 2003	CONFIRMATION NO.: 3198	
STATE!	MENT BY APPLACANT	APPLICANT: Kevin J. Dowling, et al.		
Sheet 7	O JAN 2 3 2004	GROUP ART UNIT: 2821	EXAMINER: Not yet assigned	
	H. A.	Ç		
	* Artistic License And See Ilan	neous Drawings (3 sheets) January 12, 19	95	
	* Artistic License, Miscellaneous Documents (2 sheets February 1995 and April 1996) * Newnes's Dictionary of Electronics, Fourth Edition, S.W. Amos, et al., Preface to First Edition, pp. 278-279			
	*"http://www.luminus.cx/projects/chaser", (November 13, 2000), pp. 1-16			

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]

EXAMINER

^{*}a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 09/944,523, filed August 31, 2001, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).